Dong-Kyun Ko

List of Publications by Citations

24 papers	792 citations	12 h-index	27 g-index
27 ext. papers	900 ext. citations	8.4 avg, IF	4.28 L-index

#	Paper	IF	Citations
24	Enhanced thermopower via carrier energy filtering in solution-processable Pt-Sb2Te3 nanocomposites. *Nano Letters*, **2011**, 11, 2841-4	11.5	200
23	Size-dependent phase transition memory switching behavior and low writing currents in GeTe nanowires. *Applied Physics Letters*, **2006**, 89, 223116	3.4	110
22	Photovoltaic Performance of PbS Quantum Dots Treated with Metal Salts. *ACS Nano*, **2016**, 10, 3382-8	16.7	70
21	p-i-n Heterojunction solar cells with a colloidal quantum-dot absorber layer. *Advanced Materials*, **2014**, 26, 4845-50	24	64
20	Protein-directed self-assembly of a fullerene crystal. *Nature Communications*, **2016**, 7, 11429	17.4	47
19	Colloidal quantum dots for thermal infrared sensing and imaging. *Nano Convergence*, **2019**, 6, 7	9.2	46
18	Probing the Fermi energy level and the density of states distribution in PbTe nanocrystal (quantum dot) solids by temperature-dependent thermopower measurements. *ACS Nano*, **2011**, 5, 4810-7	16.7	45
17	Near-Infrared Absorption of Monodisperse Silver Telluride (Ag2Te) Nanocrystals and Photoconductive Response of Their Self-Assembled Superlattices. *Chemistry of Materials*, **2011**, 23, 4657-4659	9.6	41
16	Carrier distribution and dynamics of nanocrystal solids doped with artificial atoms. *Nano Letters*, **2010**, 10, 1842-7	11.5	40
15	Silver Selenide Colloidal Quantum Dots for Mid-Wavelength Infrared Photodetection. *ACS Applied Nano Materials*, **2019**, 2, 1631-1636	5.6	25
14	Paper Thermoelectrics: Merging Nanotechnology with Naturally Abundant Fibrous Material. *ACS Applied Materials & Interfaces*, **2016**, 8, 22182-9	9.5	19
13	Colloidal-annealing of ZnO nanoparticles to passivate traps and improve charge extraction in colloidal quantum dot solar cells. *Nanoscale*, **2019**, 11, 17498-17505	7.7	16
12	High-performance thermoelectric silver selenide thin films cation exchanged from a copper selenide template. *Nanoscale Advances*, **2020**, 2, 368-376	5.1	11
11	Scalable Van der Waals Two-Dimensional PtTe Layers Integrated onto Silicon for Efficient Near-to-Mid Infrared Photodetection. *ACS Applied Materials & Interfaces*, **2021**, 13, 15542-15550	9.5	11
10	Vertically Stacked Intraband Quantum Dot Devices for Mid-Wavelength Infrared Photodetection. *ACS Applied Materials & Interfaces*, **2021**, 13, 937-943	9.5	9
9	The role of third cation doping on phase stability, carrier transport and carrier suppression in amorphous oxide semiconductors. *Journal of Materials Chemistry C*, **2020**, 8, 13798-13810	7.1	9
8	Wafer-scale 2D PtTe2 layers-enabled Kirigami heaters with superior mechanical stretchability and electro-thermal responsiveness. *Applied Materials Today*, **2020**, 20, 100718	6.6	8

List of Publications

7	Ligand engineering of mid-infrared Ag2Se colloidal quantum dots. *Physica E: Low-Dimensional Systems and Nanostructures*, **2020**, 124, 114223	3	7
6	(Invited) Mid-Infrared Colloidal Quantum Dot Based Nanoelectronics and Nano-Optoelectronics. *ECS Transactions*, **2019**, 92, 11-16	1	4
5	Midwavelength Infrared p-n Heterojunction Diodes Based on Intraband Colloidal Quantum Dots. *ACS Applied Materials & Interfaces*, **2021**, 13, 49043-49049	9.5	3
4	Mid-Wavelength Infrared Responsivity of Colloidal Quantum Dot/Organic Hybrid Photodetectors. *ECS Transactions*, **2020**, 97, 109-115	1	2
3	Property engineering through nanomaterial chemical transformation of colloidal nanocrystal thin films. *Applied Surface Science*, **2020**, 513, 145721	6.7	1
2	High-Performance Oxide-Based p-n Heterojunctions Integrating p-SnO and n-InGaZnO. *ACS Applied Materials & Interfaces*, **2021**, 13, 55676-55686	9.5	1
1	Photoluminescence in PbS nanocrystal thin films: Nanocrystal density, film morphology and energy transfer. *Journal of Applied Physics*, **2020**, 128, 134301	2.5	1